

# GRAVITATION

## \* Gravitational force :

- Every matter attract every other matter.
- Central force
- Conservative force
- Long range force
- Quant depend on medium.

$$\vec{F}_{12} = \vec{F}_{21} = \frac{G M_1 M_2}{r^2}$$

## \* Newton's law of Gravitation

- only valid for point mass and spherical mass system.

$G$  → Gravitational constant  
 $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

## \* Superposition theorem

- Force bet<sup>o</sup> 2 object doesn't depend on presence of other object.

$$\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$



$$\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$

at  $x=0$

$$= \frac{G m m_1}{(1)^2} + \frac{G m m_2}{(2)^2} + \frac{G m m_3}{(3)^2} + \dots$$

G.P. Series

$$\frac{a}{1-r} = \frac{G m^2}{1-\frac{1}{4}} = \frac{4}{3} G m^2$$

## \* $M, R$ Hollow sphere



$$F = \frac{G M m}{(R+r)^2}$$

$F_{\text{inside}} = 0$

## \* Solid sphere



$$F = \frac{G M m}{r^2}$$

$$F = \frac{G M m}{r^2}$$

$$M' = \frac{4}{3} \pi R^3 \rho$$

$$M' = \frac{M r^3}{R^3}$$

$$F = \frac{G M' m}{r^2} = \frac{G M m r^3}{R^3 r^2}$$

$$F_{\text{at } r} = \frac{G M m r}{R^3} \quad F_{\text{surface } R^2} = \frac{G M m}{R^2}$$



$$F_{\text{net}} = 0$$

$$\alpha = \frac{d}{\sqrt{R^2 - 1}}$$



$$F = \frac{G M m}{d(d+L)}$$

## \* Gravitational field intensity (Grav. force on unit mass)

$$\vec{I} = \lim_{m \rightarrow 0} \frac{\vec{F}}{m}$$

$m_0$  → test mass

### (i) due to point mass



$$I = \frac{F}{m_0} \Rightarrow I = -\frac{G M}{r^2}$$

$$I \propto \frac{1}{r^2}$$

### (ii) due to hollow sphere



$$I_{\text{outside}} = -\frac{G M}{r^2}$$

$$I_{\text{surface}} = -\frac{G M}{R^2}$$

$$I_{\text{inside}} = 0$$

### (iii) Solid sphere



$$I \propto \frac{1}{r^2}$$

$$I \propto \frac{1}{r^2}$$

### (iv) Axis of ring



$$I_{\text{max}}$$

$$\alpha = R/2$$

$$I = \frac{G M \alpha}{(R^2 + \alpha^2)^{3/2}}$$

$$\alpha \ll R$$

$$I = \frac{G M \alpha}{R^3}$$

$$\alpha \gg R$$

$$I = \frac{G M}{\alpha^2}$$

$$I_{\text{outside}} = -\frac{G M}{r^2}$$

$$I_{\text{surface}} = -\frac{G M}{R^2}$$

$$I_{\text{inside}} = -\frac{G M}{R^3}$$

# Gravitation Study Guide

**Morton M. Sternheim**



## **Gravitation Study Guide:**

## Reviewing **Gravitation Study Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Gravitation Study Guide**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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